# **Battery Interconnects**

## **Product Facts**

- Multi-directional mating all angles between 0° and 90°
- Standard 5-position system
- Total interface solution
- Current capacity 7 Amps/ single contact at 30°C T-Rise
- Choice of right angle or vertical mount headers with left, right or keyless polarization
- Headers available for 7.2, 10.8, and 12.0 volt rechargeable batteries
- Receptacle connectors with solder tails or weld tabs
- Consumer friendly mating/unmating of battery
- Reduces design cycle time
- Reduces overall costs
- Produced under a Quality Management System certified to ISO 9001
- Two-Piece Connector
- Blade Contacts for high durability
- Used Industry-wide for rechargeable battery I/O in laptop computers
- Offered in a variety of key arrangement — for different voltage batteries
- 2.5mm, 3.0mm and 5.0mm contact pitch
- Up to 7 Amps per contact
- Up to 2500 cycle durability
- Two pc tails per blade for better current distribution

Since the introduction of the Duracell, standard-sized nickel-metal hydride rechargeable battery to the computer and communications original equipment manufacturers (OEMs), Tyco Electronics has played a major role in the development and manufacture of a reliable, high performance multidirectional interconnect system.

As the Duracell line of rechargeable batteries expanded to newer and more diversified uses, so have Tyco Electronics Battery Interconnect Systems. Today, systems are available for:

- DR17 (7.2 Volts)
- DR30 (7.2 Volts)
- DR15 (10.8 Volts)
- DR35 (10.8 Volts)
- DR36 (12.0 Volts)

These 5-position headers and the Tyco Electronics

5-position receptacle connectors provide reliable, easy mate/unmate interconnects.

Single contacts are rated at 7 amperes with a 30°C T-Rise, and have an operating temperature rating of -30°C to +70°C. Headers feature sturdy brass contacts with duplex plated tin-lead solder tails and nickel on the mating area to ensure the life of the system and to provide high cycle mating/unmating.

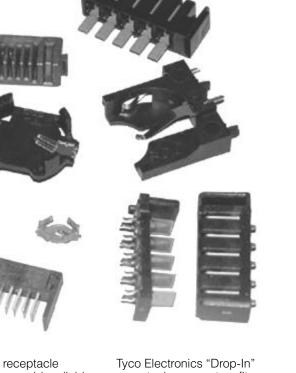
Housings are made of high temperature, U.L. 94V-0 rated thermoplastic and are available with left or right hand keying, or with keyless mounting configurations. Keyless headers are designed to minimize board space requirements, and require the battery manufacturer to provide voltage key in the battery rack compartment. Keyless headers accept all 3 voltage battery packs. Tyco Electronics "Drop-In" receptacle connectors fit securely within the battery pack compartment. They are offered in a choice of weld tab or solder tail versions for PC board mounting. Housings are made from high impact U.L. 94V-0 rated thermoplastic with high temperature housings available for solder tail versions.

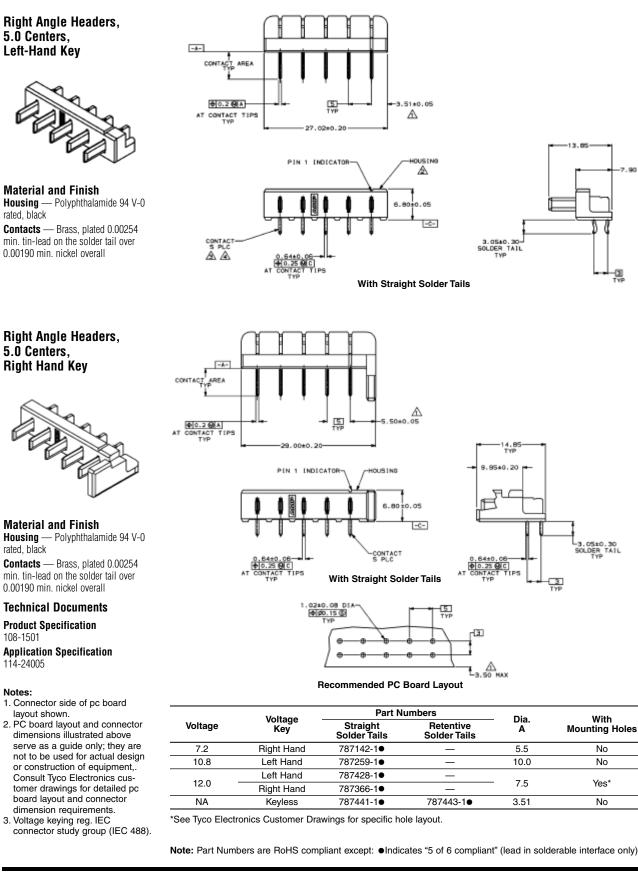
The Tyco Electronics Battery Interconnection systems provide variable direction mating and voltage/form factor polarization for safe, friendly operation.

Catalog 1773096 Revised 7-07

www.tycoelectronics.com

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803





# rated, black

#### **Technical Documents**

108-1501

114-24005

#### Notes:

- 1. Connector side of pc board layout shown.
- 2. PC board layout and connector dimensions illustrated above serve as a guide only; they are not to be used for actual design or construction of equipment, Consult Tyco Electronics customer drawings for detailed pc board layout and connector dimension requirements.
- 3. Voltage keying reg. IEC connector study group (IEC 488).

Note: Part Numbers are RoHS compliant except: Indicates "5 of 6 compliant" (lead in solderable interface only).

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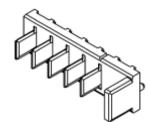
Catalog 1773096 Revised 7-07 www.tycoelectronics.com

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USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

#### Vertical Headers, 5.0 Centers



#### Material and Finish Housing — Polyphthalamide 94 V-0

rated, black

**Contacts** — Brass, plated 0.00254 min. tin-lead on the solder tail over 0.00190 min. nickel overall

**Technical Documents** 

Product Specification 108-1501 Application Specification

114-24005

## Vertical Headers, 5.0 Centers, Keyless\*

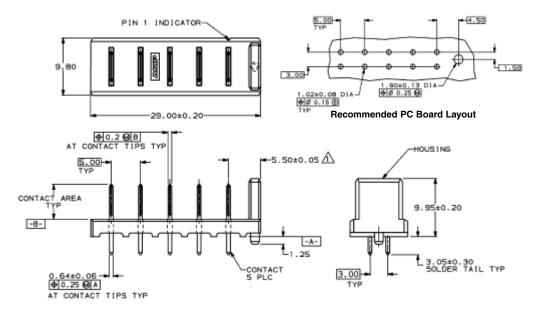
\*Keyless headers are designed for any voltage battery pack, and to minimize pc board space requirements. The use of a keyless header requires the equipment manufacturer to provide voltage key in the battery pack compartment.

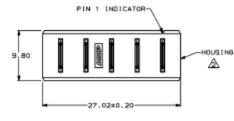


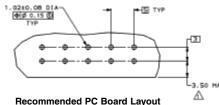
## **Material and Finish**

**Housing** — Polyphthalamide 94 V-0 rated, black

**Contacts** — Brass, plated 0.00254 Min. tin-lead on the solder tail over 0.0190 min. nickel overall

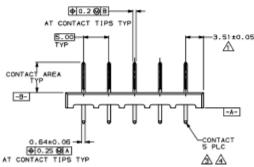








Laptops/Portables



3.00 3.00 3.05±0.30 SOLDER TAIL TYP

Part Numbers Dia. With Straight Solder Tails Voltage Retentive **Mounting Holes** Α Solder Tails 787334-1 7.2 5.5 Yes 10.8 787419-1 787421-1 10.0 Yes 12.0 787430-1 7.5 Yes Keyless 787444-1 787446-1 3.51 No

Note: Part Numbers are RoHS compliant except: Indicates "5 of 6 compliant" (lead in solderable interface only).

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Hong Kong: 852-2735-1628 Japan: 81-44-844-8013

UK: +44 (0) 800-267-666

## Receptacle Connectors, 7.2 Voltage, with Solder Tail for PC Board Mounting

**Électronics** 

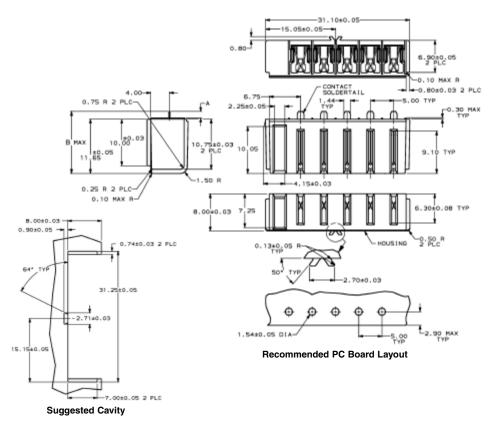
Part No. 787590-1●

#### **Material and Finish**

₹<sub>Тусо</sub>

 $\begin{array}{l} \textbf{Housing} \\ \textbf{--} \\ \textbf{Polyphthalamide 94 V-0} \\ \textbf{rated, black} \end{array}$ 

**Contacts** — Copper alloy, duplex plated 0.00254 min. tin-lead on solder tails over 0.00190 min. nickel overall



## Receptacle Connector, 7.2 Voltage with Weld Tabs

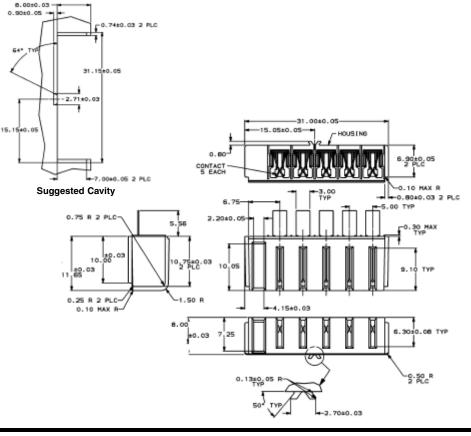
# Part No. 787613-1

#### **Material and Finish**

Housing — Polycarbonate 94 V-0 rated, black Contacts — Copper alloy, plated 0.00190 min. nickel

# Technical Documents Product Specification 108-1501

Application Specification 114-24005



Note: Part Numbers are RoHS compliant except: ●Indicates "5 of 6 compliant" (lead in solderable interface only).

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Catalog 1773096 Revised 7-07

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

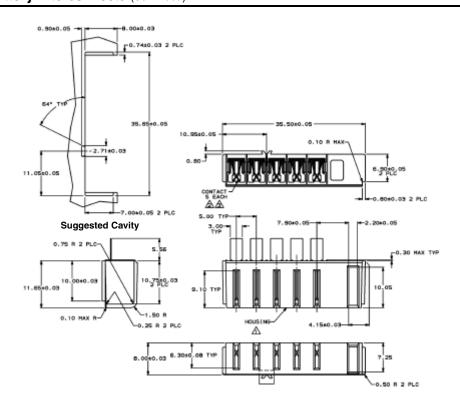
Receptacle Connectors, 10.8 Voltage, with Weld Tabs

₹ Tyco Electronics

Part No. 787614-1

#### **Material and Finish**

Housing — Polycarbonate 94 V-0 rated, black Contacts — Copper alloy, plated 0.00190 min. nickel





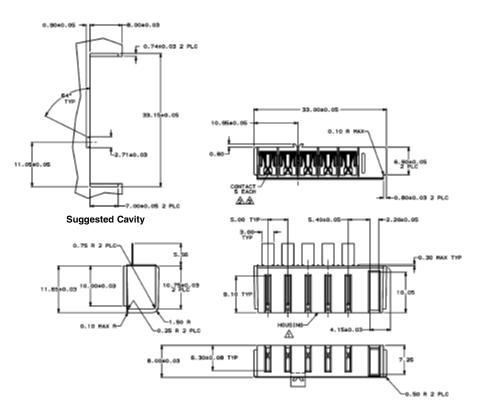
# Part No. 787615-1

#### **Material and Finish**

Housing — Polycarbonate 94 V-0 rated, black Contacts — Copper alloy, plated 0.00190 min. nickel

## Technical Documents Product Specification 108-1501

Application Specification 114-24005



Catalog 1773096 Revised 7-07

www.tycoelectronics.com milimeters care metric ec

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

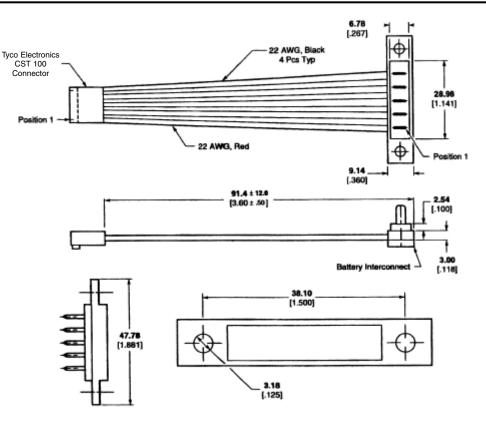
Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803



# Tyco Electronics Battery Interconnection System, Cable-to-Board Connector Assembly

## **Product Facts**

- Offers OEM manufacturers complete design flexibility
- Tyco Electronics cable assembly design engineers assist on your specific assembly requirements
- Standard or customized mounting options
- Double or single ended assemblies
- Wide choice of other end Tyco Electronics connectors to complete your assembly
- Manufacturing labor and overhead cost savings
- Inventory cost savings with Tyco Electronics Just-In-Time Delivery
- Eliminates Down-Time, all assemblies individually inspected prior to shipping



Tyco Electronics Battery Interconnect System, Cable-to-Board Connector Assembly is designed to maximize your manufacturing capabilities, and offers greater flexibility in your design cycle.

This assembly is presently available with a keyless battery connector on the mating end and a Tyco Electronics CST-100 connector on the internal connection end.

Tyco Electronics will consult with you, in the design or post-design stage, to introduce our complete cable-to-board connector assembly design and manufacturing capabilities to meet your specific battery interconnect system connector assembly requirements.

Call the Tyco Electronics Product Information Center, for immediate information on this new, exciting service for the OEM systems designer.

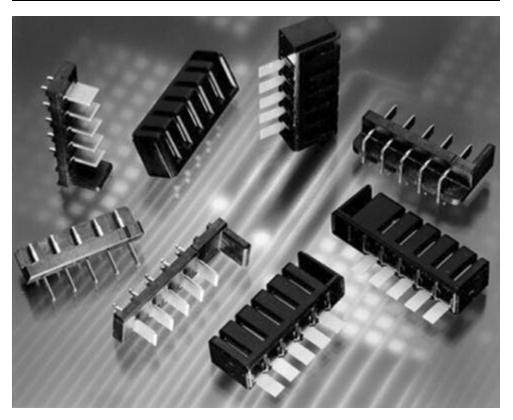
202

Catalog 1773096 Revised 7-07 www.tycoelectronics.com Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

# **Special Battery Connectors**

#### **Product Facts**

- 3-, 6-, 7- and 10-position at 2.0mm pitch; 4, 5, 6 and 7 positions at 2.5mm centerline; 8- and 10-position at 3.0mm centerline
- Housings have an excellent heat resistant property and are durable with the through-hole reflow techniques
- Contacts are made of gold plated, high conductivity, copper alloy
- 2.5mm centerline plugs are available with DIP types and SMT offset types for thinner equipment. Receptacles are available only with SMT types



As the sizes of mobile equipment, such as notebook PCs, portable telephones, etc. are becoming smaller and thinner, the spaces for battery packs also require the best space efficiency.

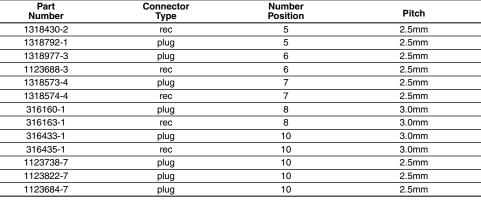
Tyco Electronics Battery Connectors are available to meet the requirements of extremely high space efficiency of small size mobile equipment with the line contact concept and are available at 2.5mm and 3.0mm centerlines.

These connectors offer significant space savings with enough contact area to secure the connection. They connect the battery spaces apt to be affected by cumulative total of tolerances and the equipment of high reliability.

# Performance Data

Voltage rating — 30V AC Current rating — less than 6A Mating/Unmating cycles — 6000 cycles (plug) 2000 cycles (rec) Operating Temperature —

-20°C to +80°C



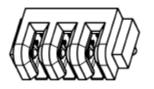
Note: All part numbers are RoHS compliant.

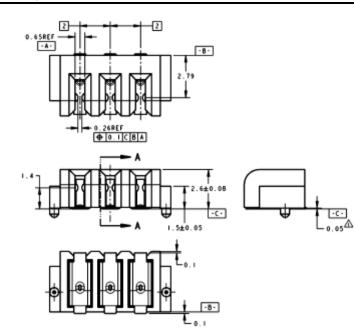
Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: +44 (0) 800-267-666

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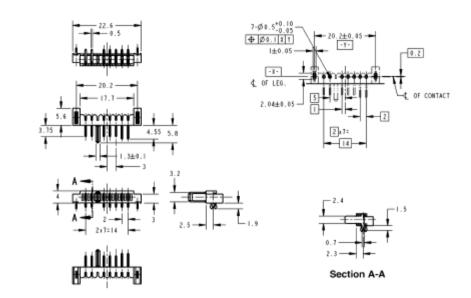
2.0mm Pitch, Receptacle Assembly, 3 Position Part Number 1612901-1

₹ Tyco Electronics





Part Number	Description	Position	Mount Angle	Mount	
1612898-1	Plug Assembly	3	Vertical	Surface Mount	
1612901-1	Receptacle Assembly	3	Right Angle	Surface Mount	
1766706-1	Plug Assembly	6	Right Angle	Through Hole	
1827654-1	Plug Assembly	7	Right Angle	Surface Mount	
1827684-1	Receptacle Assembly	7	Vertical	Surface Mount	
1-1612962-3	Plug Assembly	10	Right Angle	Through Hole	
1612963-3	Receptacle Assembly	10	Vertical	Through Hole	
1612964-3	Receptacle Assembly	10	Right Angle	Surface Moun	
1717840-1	Plug Assembly	10	Right Angle	Through Hole	
1827622-1	Receptacle Assembly	10	Right Angle	Surface Moun	



Laptops/Portables

2.0mm Pitch, Plug Assembly, 7 Position Part Number 1827654-1

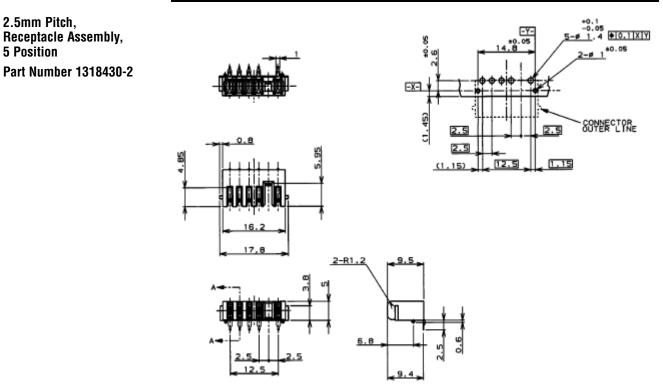
Note: All part numbers are RoHS compliant.

Catalog 1773096 Revised 7-07 www.tycoelectronics.com

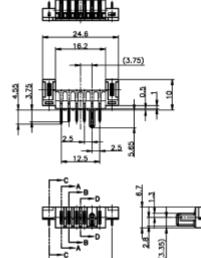
204

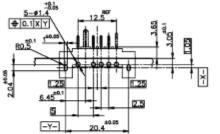
Dimensions are in inches and millimeters unless otherwise specified. Values in brackets .com are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

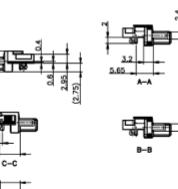




2.5mm Pitch, Plug Assembly, 5 Position Part Number 1318792-1







Catalog 1773096 Revised 7-07

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

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Dimensions are shown for reference purposes only. Specifications subject to change.

Note: All part numbers are RoHS compliant.

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USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: +44 (0) 800-267-666

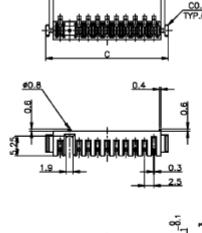
205

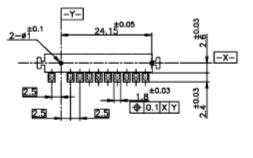
www.tycoelectronics.com

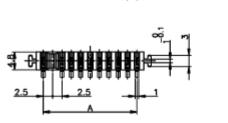
+8.1

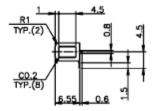
+0.1

2.5mm Pitch, Receptacle Assembly, 6 Position Part Numbers 1123688-3, 1123688-7

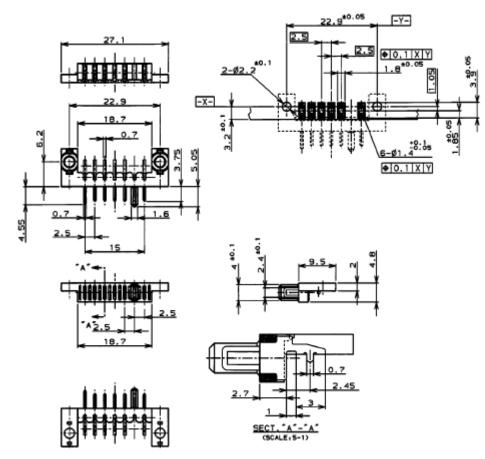








2.5mm Pitch, Plug Assembly, 6 Position Part Number 1318977-3



Note: All part numbers are RoHS compliant.

Catalog 1773096 I Revised 7-07 y www.tycoelectronics.com a

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Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

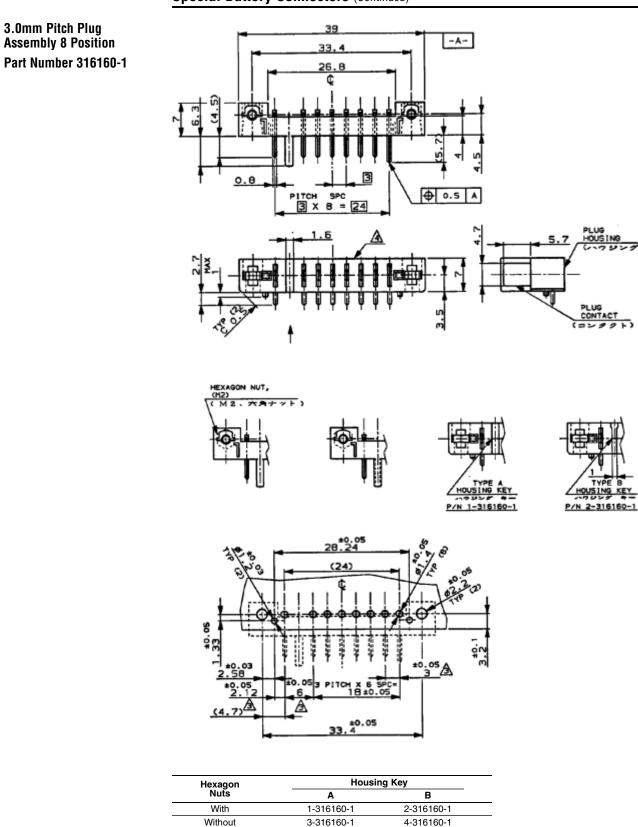
#### Special Battery Connectors (Continued) 2.5mm Pitch Receptacle +0.1 +0.1 **Assembly 7 Position** -Y-±0.05 CO.2 IYP.(8) <u>2-ø1</u> Part Number 1318574-4 -X-4040 0.6 ¢0.8 D.4 2.3±0.03 2.51.8 0.1 X Y 5.25.0 1.9 R1 C0. 2 0.6 ±0.05 - Y -1.25 2.5 2.5mm Pitch Plug ഗ 7 Ö Assembly 7 Position ö ±0.1 2-02.2 Part Number 1318573-4 -X-000000 \$1.4 \$3:05 <u>N-</u> D 0.1 X Y DATE CODE HOT MARKING rŝ 3.75. 1,6 0 2 ů. ģ ΰœ ৰ্ব Ň 5 8 ഗ 2 з ö Note: All part numbers are RoHS compliant.

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> Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: +44 (0) 800-267-666



Note: All part numbers are RoHS compliant.

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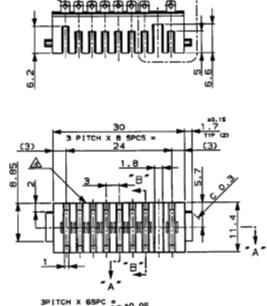
USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: +44 (0) 800-267-666

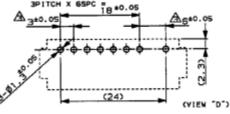
Laptops/Portables

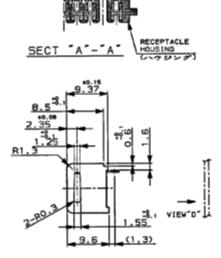
SEE DETAIL "C"

TACLE

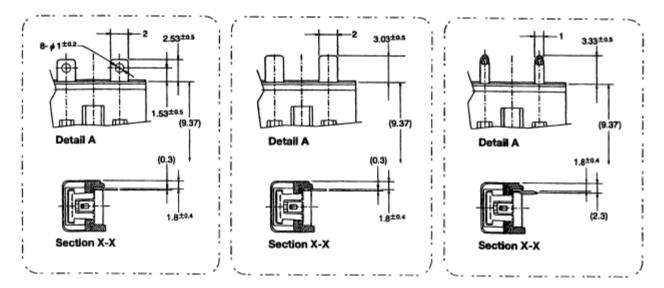
3.0mm Pitch Receptacle Assembly 8 Position







Part Numbers				
Key A	Key B			
1-316163-1	2-316163-1			
3-316163-1	4-316163-1			
5-316163-1	6-316163-1			
	Key A 1-316163-1 3-316163-1	Key A Key B   1-316163-1 2-316163-1   3-316163-1 4-316163-1		



#### Note: All part numbers are RoHS compliant.

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Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents.

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USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: +44 (0) 800-267-666

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2.5mm Pitch Receptacle Assembly

**Électronics** 

₹<sub>Тусо</sub>

Part Number 1123688-3●, 6 Position

Part Number 1123688-7●, **10** Position

#### **Material and Finish**

Housing — Thermoplastic Molding Compound, UL94V-0 rated, black Contact — Copper Alloy, nickel-underplated all over, palladium nickel plated and gold-flash plated at contact area, tin-lead plated on soldering area.



## Part Number 1123738-7●

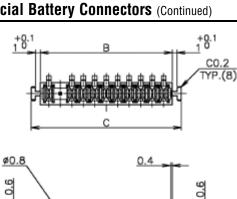
#### **Material and Finish**

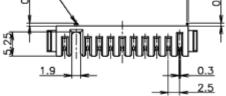
Housing — Thermoplastic Molding Compound, UL94V-0 rated, black Contact — Copper Alloy, nickel-underplated all over, palladium nickel plated and gold-flash plated at contact area, tin-lead plated on soldering area.

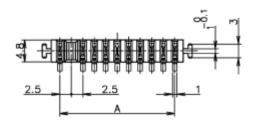
22

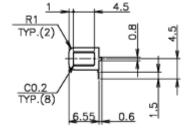
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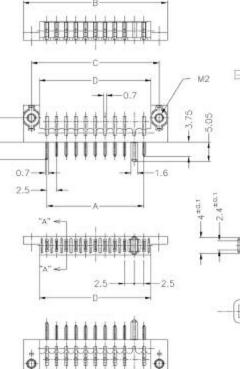
Dimensions are in inches and

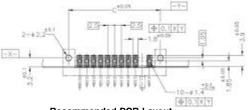




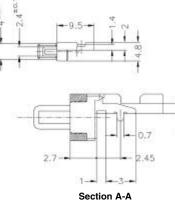








**Recommended PCB Layout** 



Note: Part Numbers are RoHS compliant except: Indicates "5 of 6 compliant" (lead in solderable interface only).

Catalog 1773096 Revised 7-07

210

millimeters unless otherwise specified. Values in brackets www.tycoelectronics.com are metric equivalents.

Dimensions are shown for reference purposes only. Specifications subject to change.

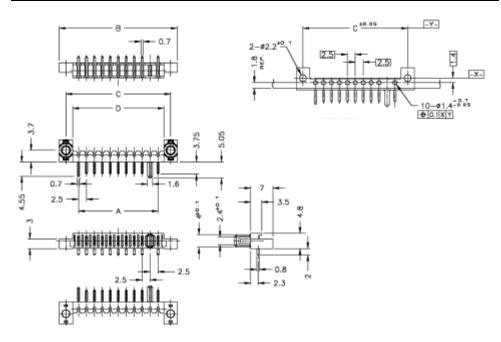
USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803

2.5mm Pitch, Plug Assembly 10 Position, Without Nut Plate

## Part Number 1123822-7●

#### **Material and Finish**

Housing — Thermoplastic Molding Compound, UL94V-0 rated, black Contact — Copper Alloy, nickel-underplated all over, palladium nickel plated and gold-flash plated at contact area, tin-lead plated on soldering area.

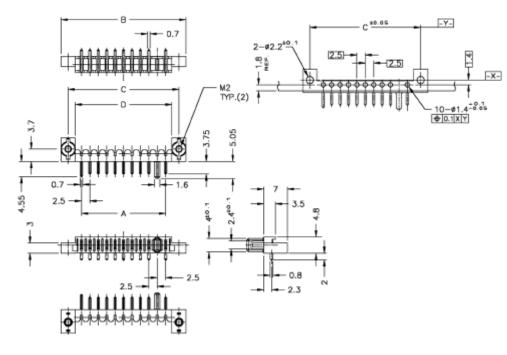


## 2.5mm Pitch, Plug Assembly 10 Position

## Part Number 1123684-7●

#### **Material and Finish**

Housing — Thermoplastic Molding Compound, UL94V-O rated, black **Contact** — Copper Alloy, nickel-underplated all over, palladium nickel plated and gold-flash plated at contact area, tin-lead plated on soldering area.

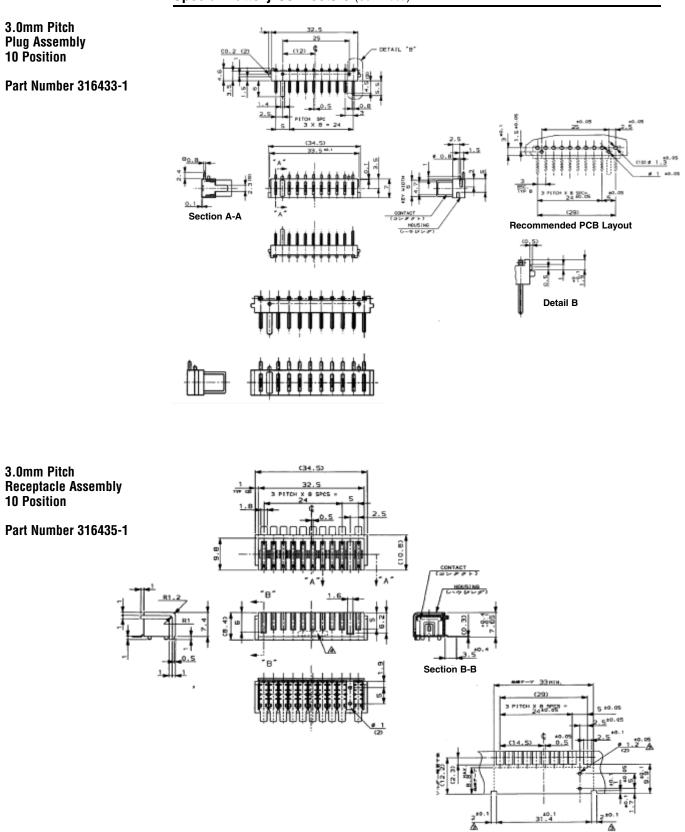


Note: Part Numbers are RoHS compliant except: Indicates "5 of 6 compliant" (lead in solderable interface only).

Catalog 1773096 Revised 7-07

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Dimensions are in inches and millimeters unless otherwise specified. Values in brackets are metric equivalents. Dimensions are shown for reference purposes only. Specifications subject to change. USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: +44 (0) 800-267-666



Dimensions are in inches and

Revised 7-07 millimeters unless otherwise specified. Values in brackets are metric equivalents.

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Note: All part numbers are RoHS compliant.

USA: 1-800-522-6752 Canada: 1-905-470-4425 Mexico: 01-800-733-8926 C. America: 52-55-1106-0803 South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: +44 (0) 800-267-666

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# **Coin-Cell Battery Holders**

## **Product Facts**

- Accepts BR2032 and CR2032 Lithium Ion Battery Cells
  - Vertical orientation available with solder tails
- Low profile horizontal orientation with solder tail or SMT terminations
- Designed for reliable (twin-beam) connection for the back-up battery on motherboards for desktop and notebook PC's.
- Designed for plated through hole (PTH) soldering and surface mount soldering
- Self-ejecting design allows battery to be removed without tools
- Accepts ML 616 and ML 614 batteries

## **Typical Application**

- Internet routers
- Handhelds
- Vending machines

#### Technical Document Product Specification 108-1691

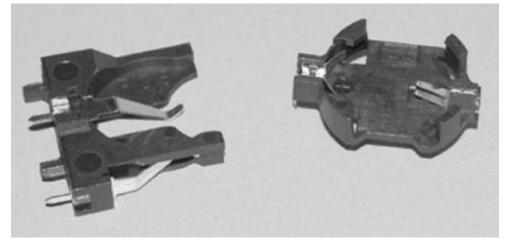
Tyco Electronics Top Load Battery is a high reliable receptacle for coin-cell (BR 2032 and CR2032) batteries. These batteries are used as battery back-ups in computers to store the RTC (real time clock) and other CMOS RAM data when the computer is not turned on. It can also be used in a variety of other electronic equipment needing a compact low wattage (typically less than 2Watts) battery source.

The polarized pcb layout and tin plated twin-beam contact design of the horizontal battery holders ensure easy printed circuit board (pcb) assembly and long term connection reliability, along with easy battery removal. The vertical mount battery holders reduce both the required pcb space and the overall height required for an optimum high-density pcb design. Surface Mount and re-flow compatible options are also ready to meet the newer pcb assembly requirements. Top Load battery connectors can be supplied in tube, tray or reel packaging methods or tray.

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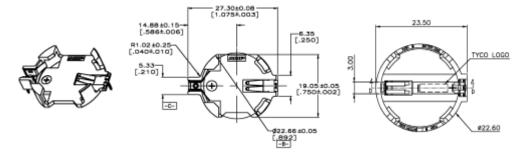


# Coin-Cell Battery Holders (Continued)

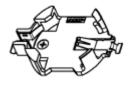
Horizontal Mount Through-**Hole Solder Tails** 

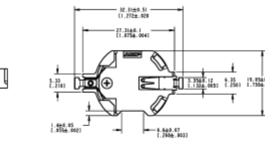
₹ Tyco Electronics

Part Number 120591-1 Tray Packaging (shown) Part Number 120591-2 **Tube Packaging** Part Number 1734178-1 Tray Packaging (shown) Housing flexes for easy removal.



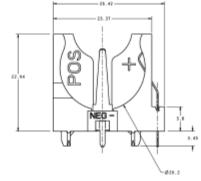




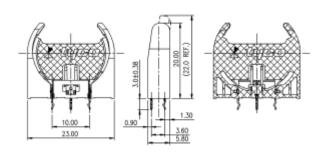


**Vertical Mount Standard Product** Part Number 1339488-1 Color — black





Low Profile Part Number 1775118-2 Color — Blue



#### Note: All part numbers are RoHS compliant.

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## **Product Facts**

₹ Тусо

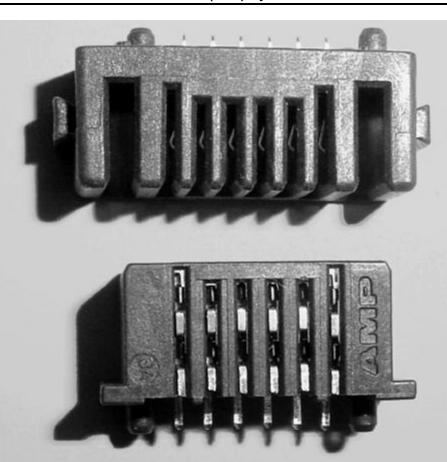
■ 6-position, 2mm interface shrouded on both sides

Electronics

- Offers blind mating from 0 to 90 mating angle
- Solder tail and SMT pcb termination
- 6-position receptacle and header interconnection on 2.0mm
- Ideal for high density application
- Connectors can be mated at any angle between 0° and 90<sup>8</sup>
- Durable 2500 cycles, contacts with 0.00076 min. AMP-DURAGOLD plating over 0.00127 min. nickel underplating
- High reliability for docking applications — portable hand held devices, measurement equipment, documentation control and interconnections for rechargeable batteries for lap-top and notebook computers
- 0.00380 min. tin on solder tails
- Versatile solder operation for board-to-board applications
- Produced under a Quality Management System certified to ISO 9001 A copy of the certificate is available upon request.
- Recognized under the **Component Program of** Underwriters Laboratories. Inc. File No. E28476
  - FI
- Certified Pending by **Canadian Standards** Association. File No. LR 16455

**Technical Documents Product Specifications** 108-1503 108-1503-1





The rapid growth of the portable equipment market has fostered a need for a high density and versatile interconnection system. Tyco Electronics Multi-Directional Interconnection System answers this need. The system consists of 6-position receptacles and headers featuring contacts on 2.0mm centerlines. This multi-directional interconnection system is designed to permit mating/unmating at any angle between 0° and 90°. This durable system features AMP-DURAGOLD plated contacts for positive mating/unmating up to 2500 cycles.

Housings are made of UL 94V-0 rated, high temperature thermoplastic, compatible with IR and reflow solder techniques.

The multi-directional aspect and durability of this system make it ideal for docking connector applications in a variety of portable hand held devices, measurement equipment, documentation control, and interconnections for rechargeable batteries used in laptop and notebook type computers.

Tyco Electronics Multi-Directional Interconnection System is your total interface problem solver. It reduces your design cycle time, time-tomarket, and provides an overall reduced cost of manufacturing.

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# Multi-Directional Interconnection (MDI) System (Continued)

## Multi-Directional Headers

6-Position Header, with Below the Board Retention Tails

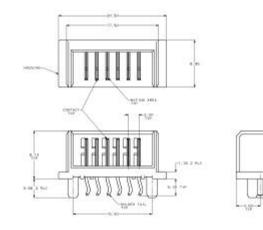
## Part Number 5787252-1

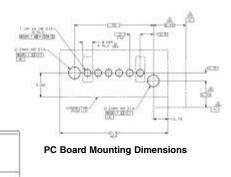
#### **Material and Finish**

Housing — LCP, 94V-0 rated, black Contacts — Brass, plated 0.00076 min. AMP-DURAGOLD on mating area, 0.00380 min. tin on solder tail, all over 0.00127 min. nickel

#### Notes:

- 1. Datum and dimensions established by customer.
- Recommended minimum trace width for end positions when carrying 3 amps — 0.00180 wide x 0.00055 thick, both sides.





## 6 Position Header Assembly with Straight Solder Tails

#### Part Number 5787531-1

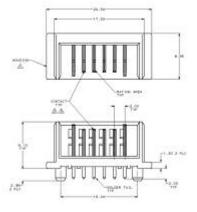
#### **Material and Finish**

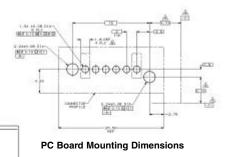
Housing — LCP, 94V-0 rated, black Contacts — Brass, plated 0.00076 min. AMP-DURAGOLD on mating area, 0.00380 min. tin on solder tail, all over 0.00127 min. nickel

#### Notes:

Laptops/Portables

- 1. Datum and dimensions established by customer.
- 2. Recommended minimum trace width for end positions when carrying 3 amps — 0.00180 wide x 0.00055 thick, both sides.





#### Note: All part numbers are RoHS compliant.

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# Multi-Directional Interconnection (MDI) System (Continued)

## Multi-Directional Receptacles

6-Position Receptacle Assembly with Straight Solder Tails

## Part Number 5787253-1

#### **Material and Finish**

Housing — LCP, 94V-0 rated, black Contacts — Phosphor bronze, plated 0.00076 min. AMP-DURAGOLD on mating area, 0.00380 min. tin on solder tail, all over 0.00127 min. nickel

#### Notes:

- 1. Datum and dimensions established by customer.
- Recommended minimum trace width for end positions when carrying 3 amps — 0.00180 wide x 0.00055 thick, both sides.



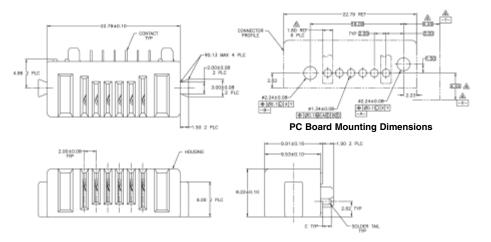
## Part Number 5787526-1

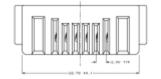
#### **Material and Finish**

Housing — LCP, 94V-0 rated, black Contacts — Phosphor bronze, plated 0.00076 min. AMP-DURAGOLD on mating area, 0.00380 min. tin on solder tail, all over 0.00127 min. nickel

#### Notes:

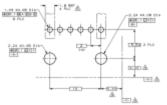
- 1. Datum and dimensions established by customer.
- Recommended minimum trace width for end positions when carrying 3 amps — 0.00180 wide x 0.00055 thick, both sides.
- 3. Recommended PC Board thickness of 1.57.



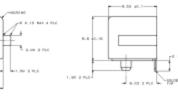


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PC Board Mounting Dimensions



Note: All part numbers are RoHS compliant.

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# **DC Power Jacks**

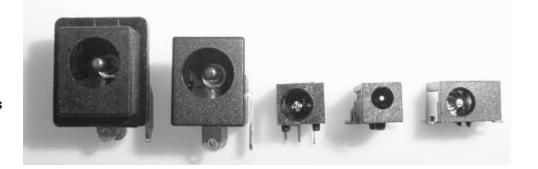
## **Product Facts**

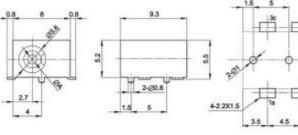
- Low Profile Design
- Accepts industry standard DC power plugs
- Available with:
  - Solder tabs
  - Through-hole solder tails
  - SMT leads
- Available to accept these plug sizes:
  - 0.65mm
  - 1.0mm
  - 1.3mm
  - 1.47mm
  - 1.87mm
  - 2.0mm
  - 2.35mm
  - 2.5mm
- Ideal for portable electric devices

#### **Surface Mount Power Jacks** Pin Diameters — 0.65mm and 1.3mm

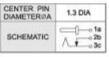
Part Number 1775638-1

Part Number 1775639-1



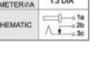


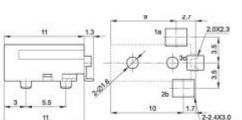




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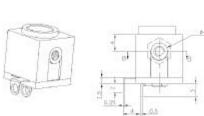
2-(2)1.5





**Bottom View** 

**Vertical DC Jack** Part Number 1470390-1



Note: All part numbers are RoHS compliant.



SECTION: A-A

11

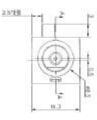
0.65 DIA

1.

o 1a o 3c o 2b

CENTER PIN DIAMETER®A

SCHEMATIC



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Laptops/Portables



are metric equivalents.

Dimensions are in inches and millimeters unless otherwise specified. Values in brackets

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South America: 55-11-2103-6000 Hong Kong: 852-2735-1628 Japan: 81-44-844-8013 UK: +44 (0) 800-267-666

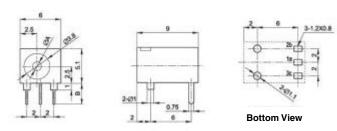
www.tycoelectronics.com

# **DC Power Jacks** (Continued)

## **Right Angle DC Jacks Miniature** Jacks

For specific part numbers, contact Tyco Electronics

Center Dia.	Tail Length	Part Number
1.30	3.00	1775529-1
1.30	1.50	1775529-2
1.00	3.00	1-1775529-1
1.00	1.50	1-1775529-1



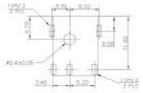
CENTER PIN DIAMETER#A	1.3 DIA		1.0	DIA	1.3 DIA		
B LENGTH	3.0mm	1.5mm	3.0mm 1.5mm		3.0mm	1.5mm	
SCHEMATIC				o1a o30 o2b			



Shielded Ja	ack
-------------	-----

			100-1150 B	- K.20 	12			7762 8 92,640,06
Dia. A	N.W. (q)	Part Number		610		110		PC
2.0	1.8	1734894-1				-	-	(Tolera
2.5	2.0	1734894-2						

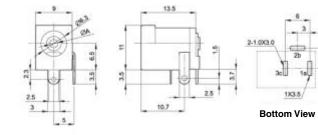
10.0



CB Layout rance ± 0.05)

#### **Standard Jacks**

Center Diameter	Part Number
2.00	1775069-1
2.35	1775069-2
2.50	1775069-3





CENTER PIN DIAMETER®A	1.35 DIA	1.47 DIA	1.7 DIA	1.87 DIA	2.0 DIA	2.2 DIA	2.35 DIA	2.5 DIA
SCHEMATIC								

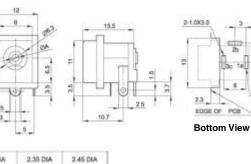
#### Standard Jack — **Recessed Flange**

For specific part numbers, contact Tyco Electronics

Center Diameter	Part Number
1.47	1775637-1
1.87	1775637-2
2.00	1775637-3
2.35	1775637-4
2.45	1775637-5



Note: All part numbers are RoHS compliant.



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2.0 DIA 2.35 DIA

1.

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